

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 51915	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/IL04/00551	International filing date (day/month/year) 20 June 2004 (20.06.2004)	(Earliest) Priority Date (day/month/year) 20 June 2003 (20.06.2003)
Applicant IMPULSE DYNAMICS NV		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the Report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐

With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title.



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

HEPATIC DEVICE FOR TREATMENT OR GLUCOSE DETECTION

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐

none of the figures is to be published with the abstract.

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### Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

A method is provided for treating a subject, including applying an electrical current to electrode device (44) attached to a hepatic portal vein (22) of the subject, and configuring the current so as to increase glucose uptake by tissue of the subject. A method is also provided, including sensing an electrical signal generated by a portoarterial glucose sensor of a subject, analyzing the signal, and responsive to the analyzing, detecting eating by the subject.

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International application No.

PCT/IL04/00551

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61N 1/18, 1/08, 1/10 US CL : 607/40 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 607/2, 40, 72; 600/345, 347, 365; 604/ 65-67 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,135,987 A (HOUBEN et al) 24 October 2000 (24.10.2000), See entire document.	1-29, 31-40, 46-71, 76-111, 115-126, 132-146, 149-158, 164-177
A	US 2002/0026141 A1 (HOUBEN et al) 28 February 2002 (28.02.2002), See entire document.	1-177
A	US 2003/0055464A1 (DARVISH et al) 20 March 2003 (20.03.2003), See entire document.	
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 23 December 2004 (23.12.2004)		Date of mailing of the international search report <b>08 FEB 2005</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Sharon A. Greene for</i> George Manuel Telephone No. (703) 308-0858